

APPENDIX D

RESULTS OF LAWN AND GARDEN EQUIPMENT ACTIVITY SURVEYS

The purpose of this appendix is to characterize and describe the responses to the lawn and garden equipment usage survey. Survey respondents were randomly selected through the SoCAB from a database of landscape businesses and facilities likely to use landscape equipment (e.g., parks, schools, golf courses, etc.).

The overall findings show that work activity is reduced by at least 80-90% on weekends relative to weekdays. Working hours tend to begin around 6:00-7:00 a.m. and end at around 2:30-4:30 p.m., regardless of the day of week. Summary tables of survey responses are shown below.

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Table D-1. Number of respondents by land-use category.

Respondent Category	No. Respondents	Percent of Total
Airports	3	2.0%
Campgrounds	6	4.0%
Camps (recreational areas)	3	2.0%
Cemetery	16	10.6%
Golf private	5	3.3%
Golf public	16	10.6%
Land (Contractors)	68	45.0%
Parks	22	14.6%
School/Univ./College	12	7.9%
Total (percentage s rounded)	151	100.00%

Table D-2. Types of property maintained by survey respondents.

		Types of Non-Residential Properties Served (No. "yes" responses)						
Number Respondents	General Types of Clients Served by Respondents	Schools, colleges or universities	Cemeteries	Golf courses	Parks and Rec areas	Business parks or commercial spaces	Airports or Transportation facilities	Residential park
16	Residential properties only							
90	Non-residential properties only (commercial, government-owned, or public)	15	16	23	23	15	7	2
44	Both residential and non-residential properties	10	4	4	11	37		3
1	DON'T KNOW	0	0	0	1	1		
151	Total	25	20	27	35	53	7	5

Table D-3. Number of properties serviced by survey respondents.

Number Respondents	General Types of Clients Served by Respondents	Total No. Properties Served Weekly	Avg. Properties per Respondent per Week
16	Residential properties only	714	45
90	Non-residential properties only (commercial, government-owned, or public)	1421	16
44	Both residential and non-residential properties	2791	63
1	DON'T KNOW	1	1
151	Total		

Table D-4. Number and types of landscape maintenance equipment.

Type of Equipment	Total Respondents Who Use			Equipment Count			
	yes	no	don't know	Gasoline-powered	Diesel-powered	Electric	Manual
Edgers/trimmers/Cutters	142	9		1540	90	112	295
Mowers	141	9	1	1940	313	6	26
Tractors	84	67		575	284	0	0
Chainsaws	106	45		966	88	92	99
Commercial Turf Equipment	68	82	1	1417	237	95	92
Leaf Blowers	128	23		1287	177	192	177

Table D-5. Number of respondents and types of chemicals used for landscape maintenance.

Chemicals Used	Total Respondents Who Use
Fertilizers only	60
Pesticides only	1
Both fertilizers and pesticides	60
None	29
DON'T KNOW	1

Table D-6. Day-of-week usage pattern of landscape maintenance chemicals.

Days Used	No. of Responses	
	Pesticides	Fertilizers
Only used Monday through Friday	43	72
Only used Saturday or Sunday	2	3
More likely used Monday through Friday than on the weekend	3	14
More likely used Saturday or Sunday than during the week	10	2
Used any day of the week	0	24
DON'T KNOW	3	4
REFUSED	1	1

Table D-7. Frequency of use of landscape maintenance chemicals.

Frequency of Use	No. of Responses	
	Pesticides	Fertilizers
Daily to weekly	3	5
Weekly to monthly	7	8
Monthly to bimonthly	9	26
Only once or twice per summer	36	74
DON'T KNOW	2	1

Table D-8. Application time required for landscape maintenance chemicals.

No. Days Required for a Single Application	No. of Responses	
	Pesticides	Fertilizers
1	50	92
2	5	9
3	1	4
4	1	1
5	0	2
10	0	1
30	0	1
180	1	0
Don't Know	0	4
Refuse	0	1

Table D-9. Land area serviced by respondents.

Total Area Served in a Typical Summertime Week	No. Responses
Less than 1 acre	16
1-10 acres	24
11-50 acres	48
51-250 acres	34
251-1,000 acres	10
1,001-5,000 acres	6
>5000 acres	2
DON'T KNOW	11

21,000 to 71,000 acres/week are represented by the sampled respondents (or 33 to 111 square miles). Los Angeles County is 4,100 square miles. Thus, the sample represents 1-3% of the total land area of LA County.

Table D-10. Number of workers employed daily by respondents.

Number of Workers Employed On a Typical Summer Workday	No. of Responses
1	16
2	20
3 to 4	21
5 to 6	19
7 to 10	18
11 to 15	16
16 to 25	24
26 to 50	6
51 to 100	3
101 to 200	4
300	1
1000	1
Don't know	1
Refused	1

Total no. of workers reported on duty: 3,549.

Table D-11. Number of businesses with weekend shifts.

Does this business have weekend shifts for lawn/garden workers?	No. of Responses
Saturday Only	30
Sunday Only	1
Both Saturday and Sunday	43
Neither	74
Don't Know	2
Refuse	1

Table D-12. Number of workers by day of week and time of day.

Day of Week	Number of Workers Reported On Duty						est. man-hrs
	4am - 8am	8am - noon	Noon - 4pm	4pm - 8pm	8pm - midnight	midnight - 4 am	
Weekday ^a	1256	2007	1821	111	8	25	20,912
Saturday	199	401	304	13	3	9	3,716
Sunday	214	218	154	13	2	1	2,408

^a Includes 126 respondents whose shifts were the same on all 5 weekdays. For simplicity, excludes 22 respondents whose shifts varied by weekday. The excluded businesses employed 318 workers on a typical weekday, of 3,549 reported for the whole data set.